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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/493,917	01/28/2000	Chris Warren Patten	50N3426(3020/5)	2820		
27774	7590 11/18/2002					
MAYER, FORTKORT & WILLIAMS, PC 251 NORTH AVENUE WEST 2ND FLOOR			EXAM	EXAMINER		
			YENKE, BRIAN P			
WESTFIELD,	, NJ 07090		ART UNIT	ART UNIT PAPER NUMBER		
			2614			
			DATE MAILED: 11/18/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	
. Office Action Summary		09/493,917	PATTEN ET AL.	(i)
		Examiner	Art Unit	
		BRIAN P. YENKE	2614	
Period f	The MAILING DATE of this communication apports or Reply	pears on the cover shee	t with the correspondence address -	·-
THE - External control	MORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.1 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl O period for reply is specified above, the maximum statutory period of ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may within the statutory minimum of will apply and will expire SIX (6) It, cause the application to become	y a reply be timely filed thirty (30) days will be considered timely. MONTHS from the mailing date of this communicate BARANDONED (35 U.S.C. § 133).	ation.
1)🛛	Responsive to communication(s) filed on Ame	endment (18 Septembe	er 2002) .	
2a)⊠	This action is FINAL . 2b) ☐ Th	is action is non-final.		
3)	Since this application is in condition for allowa			ts is
Disposit	closed in accordance with the practice under tion of Claims	Ex parte Quayle, 1935	C.D. 11, 453 O.G. 213.	
4)⊠	Claim(s) 1-21 is/are pending in the application	۱.		
	4a) Of the above claim(s) is/are withdra	wn from consideration.		
5)	Claim(s) is/are allowed.			
6)⊠	Claim(s) 1-21 is/are rejected.			
7)	Claim(s) is/are objected to.			
	Claim(s) are subject to restriction and/o	r election requirement.		
	tion Papers			
	The specification is objected to by the Examine			
10)[_]	The drawing(s) filed on is/are: a)□ acce	•		
14)[]	Applicant may not request that any objection to the			
ווויי	The proposed drawing correction filed on		disapproved by the Examiner.	
12)[□	If approved, corrected drawings are required in repaired in repaired to by the Ex			
	under 35 U.S.C. §§ 119 and 120	amme.		
		a anianity under 25 H.C.	0 (140(a) (d) an (0	
	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	i priority under 35 0.5.	C. 9 119(a)-(u) of (i).	
a)		s have been received		
	_ , , , , , , , , , , , , , , , , , , ,		. APP N-	
	2. Certified copies of the priority document			
* (3. Copies of the certified copies of the prio application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14) 🗌 /	Acknowledgment is made of a claim for domesti	c priority under 35 U.S.	C. § 119(e) (to a provisional applic	ation).
_	 The translation of the foreign language pro Acknowledgment is made of a claim for domest 	* *		
Attachmer	nt(s)			
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice	ew Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)	

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DETAILED ACTION

1. Applicant's arguments filed 18 September 2002 have been fully considered but they are not persuasive.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-21 rejected under 35 U.S.C. 103(a) as being unpatentable over Marflak et al., US 6,323,915 and Teraoka et al., US 5,537,149 and applicants admitted prior art.

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1) the claimed receiving an image having a first aspect ratio... is met by video receiver 312 (Fig 3) which receives either a 16:9 or 4:3 video signal

2) the claimed displaying said image on a display having a second aspect ratio is met by display screen 322 (Fig 3) which is displays a video signal in the 4:3 format

However, Marflak remains silent on the display having sensors which detect the image. Marflak discloses a system which utilizes an edge/border modification signal in order to control the display system to display the received video signal into a modified aspect ratio.

The use of sensors on a display to control the displayed picture is well-known in the art. As disclosed by applicant's Fig 1, 2 which includes sensors 108/208, 110/210, 112/212 and 114/214 to ascertain the position of the displayed image and assist in the adjustment of the displayed picture.

Teraoka et al., US 5,537,149, discloses a Display Device which receives either a 4:3 or 16:9 video signals and displays the received signal on a 16:9 and 4:3 display device respectively. Teraoka discloses a system which expands or compresses the respective video signal, where the video signal is size adjusted to maintain the distance from the original vertical and horizontal center.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Marflak which discloses a system which receives either a 16:9 or 4:3 video signal on a 4:3 display, with conventional sensors as admitted by applicant's Fig 1, 2, in order to properly align/display the received signal while maintaining the center position of the original image as disclosed by Teraoka.

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In considering claims 3, 12 and 21,

Marflak remains silent on a display which has a 16:9 aspect ratio. Marflak discloses display system which display either a 4:3 or 16:9 receive video signal on a 4:3 display device.

The displaying of a 4:3 aspect ratio on a 16:9 display is well-known in the art. As disclosed by Teraoka, which discloses the displaying of a received 4:3 and 16:9 video signal, onto a 16:9 and 4:3 display, respectively.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to modify Marflak which discloses receiving both a 4:3 and 16:9 aspect ratio video signal and displays the signal on a 4:3 display, with Teraoka et al, in order to properly display a received signal where a users display device is a 16:9 aspect ratio display.

In considering claims 4-9, and 13-18,

As stated above in claim 1, Marflak remains silent on the use of conventional sensors as disclosed in applicant's Fig 1 and 2, and also in the step size being in centimeters. Marflak discloses a system which utilizes an edge/border modification signal in order to control the display system to display the received video signal into a modified aspect ratio.

The use of sensors on a display to control the displayed picture is well-known in the art. As disclosed by applicant's Fig 1, 2 which includes sensors 108/208, 110/210,

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112/212 and 114/214 to ascertain the position of the displayed image and assist in the adjustment of the displayed picture.

Teraoka et al., US 5,537,149, discloses a Display Device which receives either a 4:3 or 16:9 video signals and displays the received signal on a 16:9 and 4:3 display device respectively. Teraoka discloses a system which expands or compresses the respective video signal, where the video signal is size adjusted to maintain the distance from the original vertical and horizontal center. Although, Teraoka remains silent on the size of the adjustments, it is known that pixels range in size in terms of millimeters and thus a centimeter step (increment) would provide an adjustment in terms of multiple pixels.

Therefore, it would have been obvious to one or ordinary skill in the art, to modify Marflak, which discloses the conversion of a received first aspect ratio video signal, into a 2nd displayed aspect ratio, with applicant's admitted prior art and Teraoka, in order to determine the position of the adjusted 2nd aspect ratio video signal, by using conventional display sensors in order to maintain the center position, both horizontally and vertically, of the original 1st aspect ratio receive signal.

Applicant's Arguments

- a) Applicant states that neither of the cited references, teach or suggest a method for performing auto convergence in which a received image is moved so that each sensor can detect the corresponding side of the image.
- b) Applicant states that the examiner relies on impermissible hindsight.

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Examiner's Response

a) The examiner disagrees. It is noted by the examiner, the applicant discloses "The movement of the image can be in the form of shifting the entire image towards the sensor, or alternatively, stretching the image so that the edges of the image can be detected by the sensors." Marflak discloses a system which utilizes an edge/border modification signal in order to control the display system to display the received video signal into a modified aspect ratio. Marflak also discloses in the background that a 16:9 aspect ratio picture was vertically stretched to cover the black bands at the top and bottom of the 4:3 aspect ratio television display, however the prior art methods the processed image was noticeably distorted from the original image.

Teraoka et al, discloses a system which uses non-linear compression and expansion in order to display a received 4:3 and 16:9 on a 16:9 and 4:3 screen respectively, and to eliminate the "burnt screen". Teraoka also discloses stretching/compressing the image non-linearly to maintain the center portion of the original signal.

The use of sensors on a display to control the displayed picture is well-known in the art. As disclosed by applicant's Fig 1, 2 which includes sensors 108/208, 110/210, 112/212 and 114/214 to ascertain the position of the displayed image and assist in the adjustment of the displayed picture.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Marflak, which discloses the conversion of a received

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first aspect ratio video signal, into a 2nd displayed aspect ratio and preventing screen burnout from the display of signals with different aspect ratios, with applicant's admitted prior art and Teraoka, in order to determine the position of the adjusted 2nd aspect ratio video signal, by using conventional display sensors in order to maintain the center position, both horizontally and vertically, of the original 1st aspect ratio receive signal, to therefore provide a received signal onto a display where the aspect ratios may differ, and to prevent a burnt screen.

b) In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge gleaned only from the applicant's disclosure, such a reconstruction is proper. See *In re McLaughlin*, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Conclusion

3. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian Yenke whose telephone number is (703) 305-9871. The examiner work schedule is Monday-Thursday, 0730-1830 hrs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisor, John W. Miller, can be reached at (703)305-4795.

Any response to this action should be mailed to:

than SIX MONTHS from the mailing date of this final action.

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist). Any inquiry of a general nature or

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relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703)305-4700.

B.P.Y.

05 NOVEMBER 2002

JOHN MILLER
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600